

REMARKS

Claims 1-6, 16-19 and 31-40 are pending. By this Amendment, withdrawn claims 7-15 and 20-30 have been cancelled without prejudice or disclaimer solely to expedite prosecution, claims 1, 16, 31, and 33 are amended, and claims 34-40 are added. No new matter is presented in this Amendment.

Support for the amendments to claims 1, 16, 31, and 33 and new claims 34-36 is found in paragraphs [0024], [0029] and FIG. 2, for example. Support for new claims 37-40 is found in FIG. 5, and its related disclosure.

Applicants thank Examiner Crane for the courtesies extended to Applicants' representative during the September 19, 2006 telephone interview. The points discussed are incorporated into the remarks below and constitute the Applicants' record of the interview. For the following reasons, reconsideration is respectfully requested.

PRIORITY ACKNOWLEDGEMENT

A claim for priority to KR 2003-27339 filed on April 29, 2003 and a certified copy of the priority document were respectively filed on April 29, 2004 and May 7, 2004. The Patent Office is requested to acknowledge receipt of the priority claim and the certified copy of the priority document.

INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement with a form PTO-1449 listing one reference was submitted on June 21, 2006. The Examiner is requested to consider the reference and attach the PTO-1449 containing the Examiner's initials and signature indicating consideration of the reference to the next Office Action.

REJECTIONS UNDER 35 U.S.C. §103:

Claims 1-6, 16-19 and 31-33 are rejected under 35 U.S.C. §103(a) as being unpatentable over Miyazawa et al. (EP 0465961) in view of Egawa (JP 7-273340). The rejection is respectfully traversed.

It is respectfully submitted that none of Miyazawa, Egawa, or their combination render obvious a thin film transistor, wherein a voltage is applied to the channel region to discharge hot carriers generated in the channel region, and the channel region is an intrinsic region, as recited in Claim 1.

It is respectfully submitted that none of Miyazawa, Egawa, or their combination disclose

or suggest a flat panel display, wherein each of the pixels comprises one or more thin film transistors comprising channel, source, and drain regions in an active layer, and a voltage is applied to the channel region of the thin film transistor to discharge hot carriers, and the channel region is an intrinsic region, as recited in claim 16.

It is respectfully submitted that none of Miyazawa, Egawa, or their combination render obvious an active layer of a thin film transistor, the active layer comprising a bias supply region to supply a voltage to the channel region to discharge hot carriers, wherein the channel region is an intrinsic region, as recited in claim 31.

It is respectfully submitted that none of Miyazawa, Egawa, or their combination render obvious a thin film transistor, wherein a voltage is applied to a channel region by a member other than a gate electrode, and wherein the voltage discharges hot carriers generated in the channel region, and the channel region is an intrinsic region, as recited in claim 33.

As to claims 1, 16, 31, and 33, as discussed during the telephone interview, Miyazawa fails to disclose or suggest an intrinsic channel region because the doping in the channel of Miyazawa is opposite that of the source and drain regions. In other words, if the doping of the source and drain regions is n, then the doping of the channel region is p (see for example, FIGS. 1-30 of Miyazawa).

Accordingly, it is respectfully submitted that Miyazawa fails to disclose or suggest a each and every feature recited in claims 1, 16, 31, and 33. It is also respectfully submitted that Egawa fails to supply the deficiency of Miyazawa.

Consequently, claims 1, 16, 31 and 33 are patentable over the applied references and their combination. Claims 2-6, which depend from claim 1, claims 17-19, which depend from claim 16, and claim 32, which depends from claim 31, are likewise patentable over the applied references and their combination for at least the reasons discussed above, and for the additional features they recite.

Based on the foregoing, this rejection is respectfully requested to be withdrawn.

NEW CLAIMS:

New claims 34-36 are patentable at least for their dependence upon their respective base claims and for their added features. Also, new claims 37-40 recite the features discussed during the September 19, 2006 telephone interview as distinguishing.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.


Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

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